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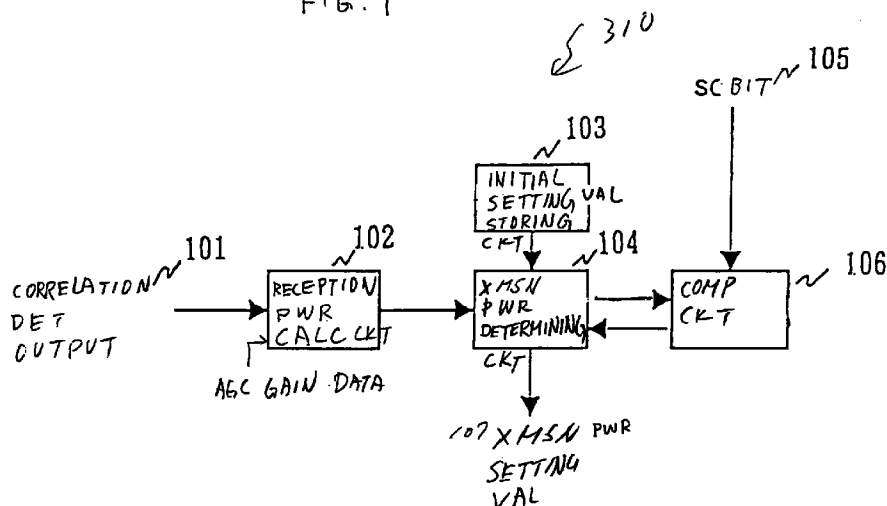
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80538 München (DE)****(54) Mobile communication system and apparatus with transmission power control**

(57) A COMM system is disclosed which comprises mobile stations and a base station. The mobile station comprises; a 1st receiving and transmitting portion; a detection portion for detecting an electric power of a 1st desired wave component of the received 1st CDMA SIG; a table for storing a relation between reception power and transmission power of a 2nd CDMA SIG to be transmitted; a demodulation portion for demodulating the received 1st CDMA SIG and for detecting a CONT SIG in the desired wave; a compensation portion for compensating the relation according to the detected CONT SIG; and a transmission power CONT portion for controlling a transmission power determined according

to the electric power obtained through the compensated table and the reception power. The base station comprises; a 2nd receiving and transmitting portion; an power detection portion for repeatedly detecting an electric power of a 2nd desired wave component of the received 2nd CDMA SIG; an averaging portion for averaging the repeatedly detected electric powers to obtain an average; and a CONT SIG generation portion for generating the CONT SIG according to an error between the average and a given value. The relation is corrected within a portion of range of the reception power or within a range of transmission power.

Fig. 1



EP 0 823 793 A3



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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	EP 0 682 417 A (NIPPON TELEGRAPH & TELEPHONE) 15 November 1995	1,6,7	H04B7/005 H04B7/216
Y	* abstract * * page 3, line 29 - page 4, line 31 * * page 6, line 7 - line 44 * * figures 4A,4B *	1-3,6-9	

Y	US 5 412 686 A (LING FUYUN) 2 May 1995 * abstract * * column 1, line 64 - column 2, line 59 * * column 4, line 31 - line 48 * * column 6, line 1 - column 8, line 37 * * column 10, line 26 - line 55 * * figures 1,2 *	1-3,6-9	

X	EP 0 682 419 A (NIPPON TELEGRAPH & TELEPHONE) 15 November 1995	4,5	
Y	* abstract * * column 2, line 49 - column 3, line 10 * * column 4, line 37 - column 6, line 9 * * column 7, line 9 - column 8, line 12 * * figures 5,7 *	1,6,7	

A	EP 0 696 587 A (BASF AG) 14 February 1996 * column 1, line 3 - column 2, line 8 * * column 2, line 24 - line 54 * * figures 1,2 *	1,4-7	

The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 9 October 1998	Examiner Lopez Marquez, T
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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